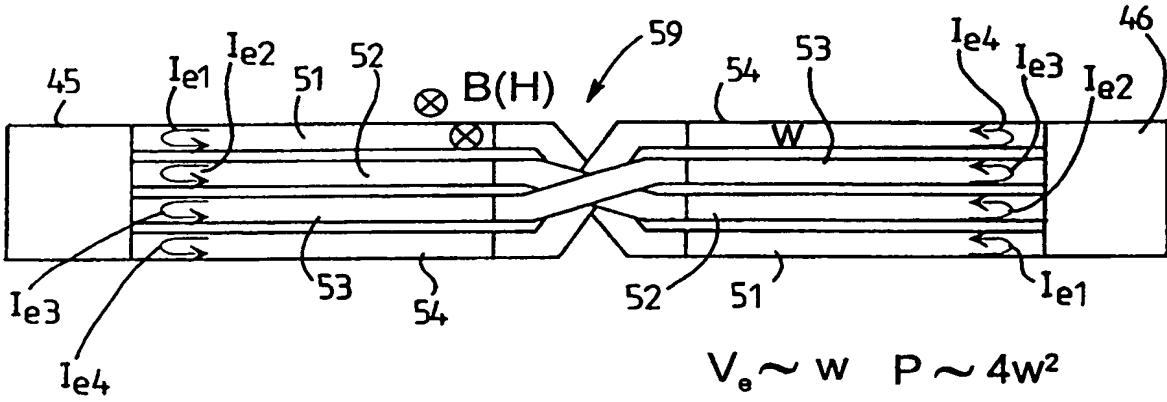




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(21) International Application Number: PCT/FI98/00239 (22) International Filing Date: 18 March 1998 (18.03.98) (30) Priority Data: 971180 20 March 1997 (20.03.97) FI (71) Applicant (for all designated States except US): MICRONAS OY [FI/FI]; Kamreerintie 2, FIN-02770 Espoo (FI). (72) Inventor; and (75) Inventor/Applicant (for US only): SIREN, Esko [FI/FI]; Kirstinmäki 17 D 76, FIN-02760 Espoo (FI). (74) Agent: KOLSTER OY AB; Iso Roobertinkatu 23, P.O. Box 148, FIN-00121 Helsinki (FI).		(81) Designated States: AL, AM, AT, AT (Utility model), AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, CZ (Utility model), DE, DE (Utility model), DK, DK (Utility model), EE, EE (Utility model), ES, FI, FI (Utility model), GB, GE, GH, GM, GW, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SK (Utility model), SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG). Published <i>With international search report.</i> <i>In English translation (filed in Finnish).</i> (88) Date of publication of the international search report: 23 December 1998 (23.12.98)
(54) Title: STRIPE-LINE INDUCTOR  <p style="text-align: center;">$V_e \sim w \quad P \sim 4w^2$</p>		
(57) Abstract <p>The invention relates to a stripe-line inductor comprising one or more stripes conductor turns fabricated into one or more layers of a carrier substrate. The stripe conductor of the inductor is divided into parallel sub-stripe-lines (51, 52, 53, 54) reducing the width of an individual conductor and thus the cross-sectional area of the magnetic flux density on the conductor surface. The sub-stripe-lines are connected together at the inductor conductor ends (45, 46). In order to cancel out the eddy current loss of a closed loop the order of the sub-stripe-lines is reversed or changed at a specific point (59) between the fascicle ends.</p>		

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INTERNATIONAL SEARCH REPORT

International application No.

PCT/FI 98/00239

A. CLASSIFICATION OF SUBJECT MATTER

IPC6: H01F 27/28

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC6: H01F, H05K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

SE,DK,FI,NO classes as above

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

EDOC, WPIL, JAPIO

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5436441 A (TAKESI INOUE), 25 July 1995 (25.07.95), column 3, line 26 - column 4, line 51, figures 1-10 --	1-3,5-7,9,11
X	US 5559360 A (TZU-YIN CHIU ET AL), 24 Sept 1996 (24.09.96), see the whole document -- -----	1-3,5-7,9,11

☐ Further documents are listed in the continuation of Box C.☒ See patent family annex.

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Date of the actual completion of the international search

25 Sept 1998

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INTERNATIONAL SEARCH REPORT

Information on patent family members

27/07/98

International application No.

PCT/FI 98/00239

Patent document cited in search report			Publication date	Patent family member(s)		Publication date
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